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**FEB 24 2005**

Attorney's Docket Number 045090/196876

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: **FARAMARZ FARAH**

Serial No.: 09/803,342

Group Art Unit: 2874

Filed: 9 March 2001

Examiner: Ullah, Akm Enayet

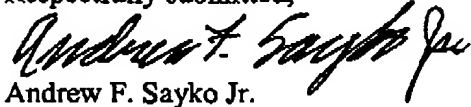
For: **INTEGRATED OPTICAL CIRCUITS**

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**CLEAN COPY OF AMENDED CLAIMS**

97. (Twice amended) An optoelectronic device comprising:  
a substrate having a first surface; and  
at least one optical interconnect formed on the first surface of said substrate  
comprising a sol-gel based material including an active region defined in the sol-gel  
based material, wherein the active region comprises rare earth ions.
99. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions  
have transition lines in the about 0.2 micron to about 3.0 micron spectrum when  
illuminated by at least one optical source.
100. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions  
have transition lines in the about 1.5 micron range when illuminated by at least one  
optical source.
101. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions  
comprise a rare earth ion chosen from the group consisting of erbium, ytterbium and  
neodymium ions.
102. (Amended) The optoelectronic device of claim 97, wherein the rare earth ions  
comprise erbium and ytterbium ions.

Respectfully submitted,



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